

ORIGINAL
(Red)

R-585-6-9-20

ENVIRONMENTAL PRIORITIES INITIATIVE
PRELIMINARY ASSESSMENT OF
MINERAL PROCESSING SYSTEMS, INCORPORATED
PREPARED UNDER

TDD NO. F3-8903-57
EPA NO. PA-2429
CONTRACT NO. 68-01-7346

FOR THE

HAZARDOUS SITE CONTROL DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

AUGUST 29, 1989

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY


DAVID SPENCER
PROJECT MANAGER

REVIEWED BY


CHARLES MEYER
SECTION SUPERVISOR

APPROVED BY

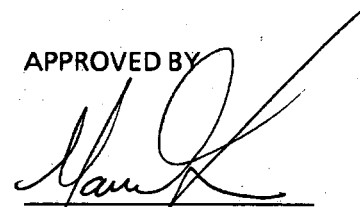

GARTH GLENN
REGIONAL OPERATIONS
MANAGER, FIT 3

TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
1.0	INTRODUCTION	1-1
1.1	AUTHORIZATION	1-1
1.2	SCOPE OF WORK	1-1
1.3	SUMMARY	1-1
2.0	THE SITE	2-1
2.1	LOCATION	2-1
2.2	SITE LAYOUT	2-1
2.3	OWNERSHIP HISTORY	2-4
2.4	SITE USE HISTORY	2-4
2.5	PERMIT AND REGULATORY ACTION HISTORY	2-5
2.6	REMEDIAL ACTION TO DATE	2-6
3.0	ENVIRONMENTAL SETTING	3-1
3.1	WATER SUPPLY	3-1
3.2	SURFACE WATERS	3-1
3.3	HYDROGEOLOGY	3-1
3.3.1	GEOLOGY	3-2
3.3.2	SOILS	3-4
3.3.3	GROUNDWATER	3-4
3.4	CLIMATE AND METEOROLOGY	3-5
3.5	LAND USE	3-5
3.6	POPULATION DISTRIBUTION	3-6
3.7	CRITICAL ENVIRONMENTS	3-6
4.0	WASTE TYPES AND QUANTITIES	4-1
4.1	SOLID WASTE MANAGEMENT UNITS	4-1
4.1.1	HAZARDOUS WASTE STORAGE AREA	4-2
4.1.2	WASTE OIL STORAGE BIN AND EMPTY WASTE OIL DRUM STORAGE AREA ...	4-3
4.1.3	DUMPSTERS	4-4
4.1.4	SAFETY KLEEN UNITS	4-5
5.0	FIELD TRIP REPORT	5-1
5.1	SUMMARY	5-1
5.2	PERSONS CONTACTED	5-1
5.2.1	PRIOR TO FIELD TRIP	5-1
5.2.2	AT THE SITE	5-1
5.2.3	WATER SUPPLY WELL INFORMATION	5-1
5.3	SITE OBSERVATIONS	5-2
5.4	PHOTOGRAPH LOG	
5.5	EPA PRELIMINARY ASSESSMENT FORM	
6.0	REFERENCES FOR SECTIONS 1.0 THROUGH 5.0	6-1

Site Name: Mineral Processing Systems, Incorporated
TDD No.: F3-8903-57

ORIGINAL
(Red)

APPENDICES

A	PART A HAZARDOUS WASTE PERMIT APPLICATION AND NOTIFICATIONS OF HAZARDOUS WASTE ACTIVITY	A-1
B	PREPAREDNESS, PREVENTION, AND CONTINGENCY PLAN	B-1
C	SAMPLE DATA FROM SETTLING BASIN	C-1

ORIGINAL
(Red)

SECTION 1

1.0 INTRODUCTION

1.1 Authorization

NUS Corporation performed this work under Environmental Protection Agency Contract No. 68-01-7346. This specific report was prepared in accordance with Technical Directive Document No. F3-8903-57 for the Mineral Processing Systems, Incorporated site, located in York, Pennsylvania.

1.2 Scope of Work

NUS FIT 3 was tasked to conduct an Environmental Priorities Initiative (EPI) preliminary assessment of the subject site.

1.3 Summary

The Mineral Processing Systems, Incorporated (MPSI) facility is located on approximately seven acres in York, York County, Pennsylvania. MPSI produces mineral-processing equipment (grinding mills, etc.) for the mining industry. Steel is brought to the site and fabricated into the chosen product utilizing forming, welding, and other processes. MPSI also operates two testing laboratories on site. Ore samples sent to MPSI are passed through scaled-down versions of MPSI equipment to determine which machinery would best break down the ore to the clients' specifications. Washdown is discharged to an on-site basin. The testing process is mechanical; no chemicals are used.

Four solid waste management units (SWMUs) have been identified for the facility: the hazardous waste storage area, the waste oil storage bin and empty waste oil drum storage area, the dumpsters, and the Safety Kleen units. Hazardous wastes are stored in the hazardous waste storage area. For a detailed description of each of the above-mentioned SWMUs and the wastes managed, please refer to section 4.1 of this report.

(b) (9)



During the FIT 3 site visit, no evidence of spills or releases was noted. MPSI representatives reported no spills or releases at the facility.

ORIGINAL
(Red)

SECTION 2

2.0 THE SITE

2.1 Location

The Mineral Processing Systems, Incorporated (MPSI) facility is located within the city limits of York, York County, Pennsylvania (see figure 2.1, page 2-2). MPSI is found at north 40° 58' 07" latitude and west 76° 43' 33" longitude on the United States Geological Survey (U.S.G.S.) York, Pennsylvania quadrangle, 7.5 minute series topographic map. The facility can be located by measuring 5.5 inches south and 3.5 inches east from the northwestern corner of the aforementioned map.¹

2.2 Site Layout

The MPSI facility occupies approximately seven acres bordered by railroad tracks from the south to the east, by residential areas to the west and northwest, and by a furniture manufacturer to the northeast (see figure 2.2, page 2-3). An L-shaped building divides the facility approximately in half. The northwestern wing houses production operations, and the southwestern wing is the home of production, painting, and storage areas, as well as a maintenance room and a tool shop. A venting system is located in the painting area. Open drums of lubricating oil are stored in the southwestern wing production area.²

To the west of the northwestern wing is an outside storage area. A small building, 540 square feet in size, used to store bulk and waste oil drums, is located 20 feet western of the northwestern wing. Empty waste oil drums are stored outside the north wall of the oil storage building. A shed, formerly used for paint storage, is located 50 feet west of the northwestern wing. Empty bulk oil drums are stored outside the north shed wall. Two dumpsters are located in the outside storage area; one is north of the oil storage building and the other is adjacent to the north wall of the maintenance shop. Fencing prevents access to the storage area from the surrounding properties. A gate, located between the northwestern wing and the office building, allows access to the storage area. The office building is located 20 feet west of the northwestern wing and 10 feet south of Arch Street.²

The area east of the northwestern wing is completely surrounded by a fence. Gates on the northern and southern boundaries allow access. A dumpster is located along the east wall of the northwestern wing. Two test laboratories are located in the area. The first is approximately 40 feet east of the northwestern wing, and the second is found 60 feet south of the first. Empty ore drums are stored adjacent to the east wall of the second laboratory and along the south fence. A settling basin, which receives discharge from the testing laboratories, is located approximately 50 feet east of the second laboratory. A storage building is 125 feet east of the northwestern wing. The hazardous waste storage is attached to the storage building on the east side.²

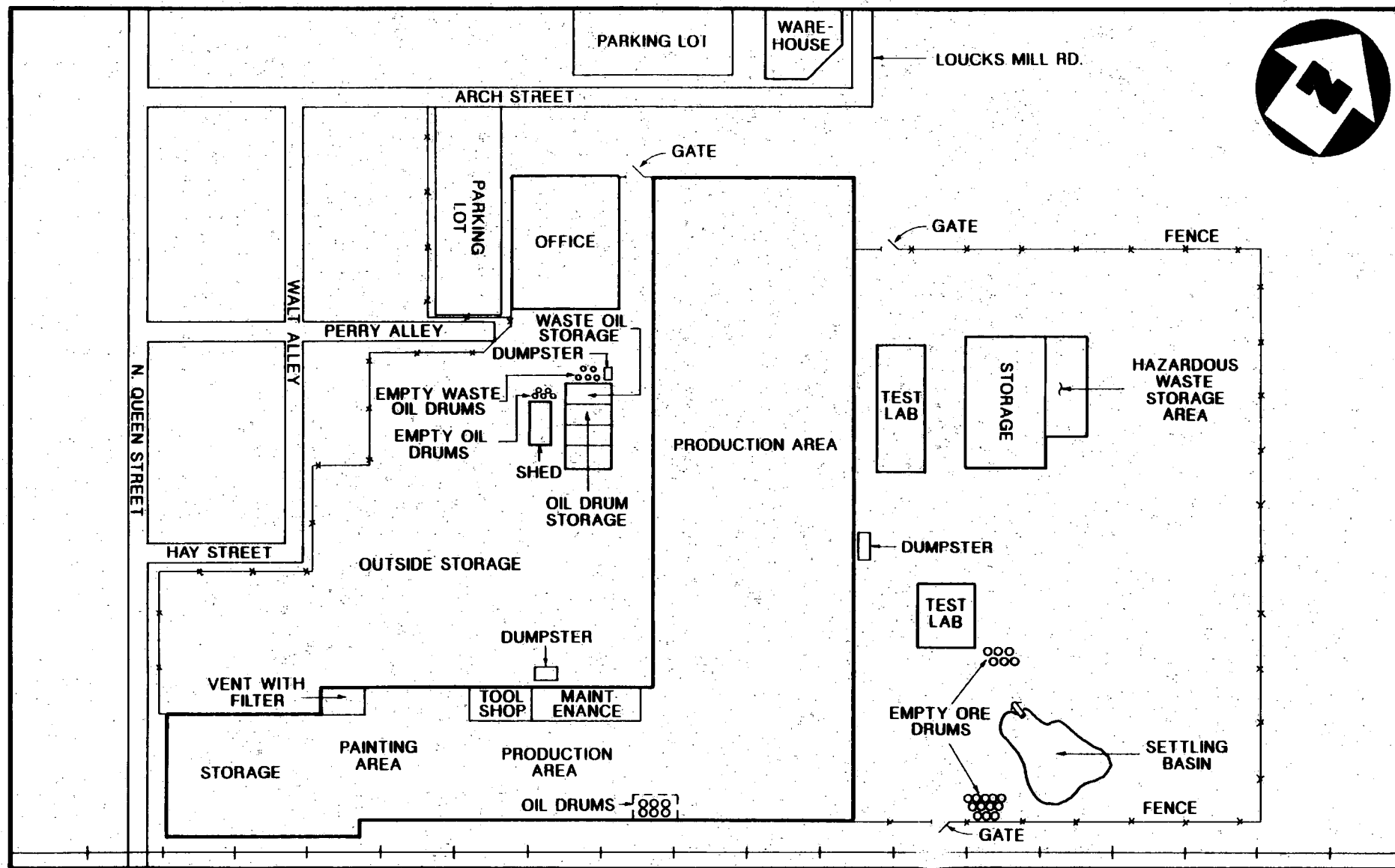


SOURCE: (7.5 MINUTE SERIES) U.S.G.S. YORK, PA., QUAD.

SITE LOCATION MAP
MINERAL PROCESSING SYSTEMS INC.
 SCALE 1: 24000

FIGURE 2.1





SITE SKETCH
MINERAL PROCESSING SYSTEMS INC.
 (NO SCALE)

FIGURE 2.2

2.3 Ownership History

The facility is currently owned by MPSI, although majority interest in MPSI was purchased in February 1989 by Trelaburg, of Sweden. MPSI split from its parent company, Koppers Company, Incorporated, in 1983. Koppers had acquired the property in 1965. Prior to Koppers, the facility was owned by Hardings, which had operated at the site since the early 1900s.³

2.4 Site Use History

MPSI fabricates mineral-processing equipment (grinding mills, etc.) for the mining industry. Steel plate and formed steel are brought to the facility and used to produce the desired product. MPSI utilizes gas burning, forming, electric arc welding, and machining in its process. The product is painted prior to shipment.³

Two testing laboratories located on the facility are utilized to run test batches of ore through scaled-down versions of MPSI equipment. The ore is sent to MPSI in drums by customers seeking a determination on which machinery would best break down the ore. The process is mechanical; no chemicals are used. Washdown from the process is discharged into an unlined settling basin, approximately 700 square feet in size. Water is allowed to percolate into the ground as the crushed ore accumulates in the basin. The crushed ore is dried in place and then removed to be disposed in a local quarry as fill material.³

Koppers Company, Incorporated also produced mineral-processing equipment at the facility. In addition, Koppers operated a foundry in what is now the southwestern wing. The foundry was closed in 1981. No foundry wastes are known to have been disposed on the site. Foundry sands were reportedly dumped in a Spring Garden Township quarry operated by Standard Concrete Products Company.^{3,4}

The facility was the site of Harding's automobile production in the early 1900s. Other possible facility usage by Hardings is unknown.³

2.5 Permit and Regulatory Action History

On November 14, 1980, Koppers Company filed a Notification of Hazardous Waste Activity and submitted a Part A Hazardous Waste Permit Application to EPA for the subject facility. The facility was assigned EPA ID No. PAD004382453 and began storing wastes under interim status. The waste codes included on the facility's Part A were F003 (spent nonhalogenated solvents), F005 (spent nonhalogenated solvents), F017, and D001 (paint waste). Process codes were identified as S01 and S02.^{5,6}

In response to a request for a Part B Permit Application from the Pennsylvania Department of Environmental Resources (PA DER), Koppers Company decided to drop its interim status. A Part B was never filed. Koppers notified PA DER and EPA of its decision in 1983 and submitted an Amended Notification of Hazardous Waste Activity on April 14, 1983, identifying Koppers as a generator only. The hazardous waste codes identified on this submittal were F001, F002, F003, and F005; all are spent solvents. MPSI submitted a Notification of Hazardous Waste Activity on December 5, 1984 in order to notify PA DER of the addition of D001 (paint waste) category wastes at the facility and of the corporate change from Koppers to MPSI.^{3,7,8,9,10,11}

During a 1984 inspection by PA DER, MPSI was notified that a modified closure of the hazardous waste storage area was needed to officially withdraw the interim status. The area was to be cleaned, and a sump in the area was to be pumped. All materials derived were to be sent out as hazardous waste. This work was completed in 1985. According to site representatives, a closure plan was submitted to PA DER in 1985, along with a Preparedness, Prevention, and Contingency Plan (see appendix B). A copy of the closure plan was not available to FIT 3.^{3,7,12}

PA DER conducted annual inspections of Koppers Company and then MPSI from 1982 through 1986. The violations noted during these inspections included an open bung on a drum and a number of labeling and paperwork deficiencies. The facility was not visited between October 1986 and the FIT 3 site visit.^{7,13,14,15}

Sampling and analysis of the materials discharged from the test laboratories into the settling basin were completed in 1979 and 1982 (see appendix C). Leachate analysis on the solids from the pond showed a limited concentration of some metals. PA DER found the material to be acceptable for disposal at a local quarry.^{4,16,17}

No permits are held by MPSI and none are known to have been held by Koppers.³

2.6 Remedial Action to Date

Responses to the Notices of Violation have been made as required. No remedial action has been undertaken at the facility.³

ORIGINAL
(Red)

SECTION 3

3.0 ENVIRONMENTAL SETTING

3.1 Water Supply

(b) (9)

Waters

No obvious surface water pathway exists between the MPSI facility and the nearest off-site surface water, an unnamed intermittent stream that flows approximately 250 feet east of the facility. The stream flows into Codorus Creek, 1,200 feet north of MPSI. Codorus Creek then flows approximately 10.2 stream miles to the north, toward the Susquehanna River. Codorus Creek is used for recreational purposes, including fishing.^{1,2}

The only on-site surface water is a settling basin that receives water discharged from the testing laboratory, where samples of ore are passed through scaled-down versions of the grinders produced at MPSI.^{1,2}

No wetlands were identified within the study area.¹

3.3 Hydrogeology

The geologic and hydrogeologic conditions in the study area were researched as part of the site investigation. A preliminary literature review was conducted to determine surface and subsurface geologic conditions, soil character, and the status of groundwater transport and storage.

3.3.1 Geology

The MPSI site is located in the Conestoga Valley Section of the Piedmont Physiographic Province. The section is underlain chiefly by Cambrian and Ordovician age carbonate rocks and shale that are complexly folded and faulted. Several northeast-southwest-trending thrust faults cut through the study area. The Gnatstown Overthrust cuts through the site. The area is gently rolling, with rounded hills and broad valleys.^{22,23}

The site is underlain by the Ordovician age Conestoga Formation south of the Gnatstown Overthrust and by the Cambrian age Kinzers Formation north of the fault (see figure 3.1, page 3-3). The Conestoga Formation is a gray, thin- to medium-bedded, sandy, impure limestone with thin shale partings and a limestone conglomerate at the base. Its thickness is unknown. The middle, pure limestone member of the Kinzers Formation is a dark blue to blue-gray crystalline limestone of variable composition. The upper earthy buff limestone member consists of gray-brown to tan, sandy, porous, leached limestone containing dark, argillaceous, and shaly interludes. The lower shale member of the Kinzer Formation, which is present at the site, is a dark gray, buff-weathering, iron-stained, fissile shale. The thickness of the Kinzers Formation varies but averages about 200 feet.^{22,24}

The Cambrian age Ledger Dolomite underlies the Conestoga Formation and overlies the Kinzers Formation. The formation is composed of light gray to pink, coarsely crystalline, thick-bedded, pure dolomite that has a chert horizon near the top. The thickness is estimated to be about 1,000 feet.²⁴

The Cambrian age Vintage Formation underlies the Kinzers Formation and consists of blue-gray, knotty dolomite, gray, fine-grained, interbedded dolomite and limestone, massive gray dolomite, and some laminated marble. Its thickness averages about 500 feet.²⁴

Underlying the Vintage Formation is the Cambrian age Antietam Formation, which is a gray, fine- to medium-grained, hard, vitreous quartzite. The lower portion is laminated, phyllitic, and micaceous. The estimated thickness is approximately 200 feet.²⁴

The Cambrian age Harpers Phyllite is a greenish-gray, argillaceous, quartzose phyllite that has interlayered quartz zones parallel to a well-developed cleavage. Mica flakes are outstanding on cleavage surfaces. The thickness is estimated to be about 800 feet.^{22,24}



Source: Geology & Mineral Resources of the Greater York Area, PA

GEOLOGIC MAP
MINERAL PROCESSING SYSTEMS, INC.
YORK, PA

FIGURE 3.1



The Cambrian age Chickies Formation, which underlies the Harpers Phyllite, has two distinct units. One unit is a light gray, hard, massive, well-bedded quartzite containing some thin black slate partings. The Hellam Conglomerate, a hard quartz-pebble conglomerate, is present at the base. The second unit is a dark brown to black, micaceous, phyllitic slate containing numerous quartz veins. The thickness of the total formation is 900 to 1,000 feet.²⁴

The Triassic age New Oxford Formation unconformably overlies the older formations along the northwestern edge of the study area. The New Oxford Formation consists of red shale and mudstone with interbedded red and gray sandstone and some conglomerate. Its thickness is approximately 6,000 feet.²⁴

A Triassic age diabase dike cuts through the western half of the study area. The dike consists of hard, fine to medium crystalline, gray diabase that is composed of plagioclase, feldspar, and augite.²⁴

3.3.2 Soils

The soil mapped at the site is the Hagerstown silt loam, three to eight percent slopes, moderately eroded. The Hagerstown soils are deep and well drained and form in material weathered from relatively pure limestone. The surface layer is dark brown silt loam, and the subsoil is yellowish-red to red silty clay loam to clay. The soil pH ranges between 6.0 and 7.0. Permeability is moderate.²⁵

3.3.3 Groundwater

In the bedrock, groundwater is stored and transmitted principally along solution channels, fractures, joints, and bedding-plane separations. Solution channels are the main influence on water movement in carbonate rocks. These channels allow the storage and transmission of large quantities of water, sometimes several miles before discharging.^{22,24}

All of the formations in the study area have aquifer potential. The Conestoga Formation is capable of yielding moderate to large quantities of water to wells, with yields ranging between 0 and 250 gallons per minute (gpm). The Kinzers Formation yields small to moderate amounts of water to wells. The Vintage Formation, New Oxford Formation, and Chickies Formation are capable of sufficient yields for small public suppliers and some industrial suppliers. Well yields range from less than 1 to 300 gpm, with median yields of 7 to 11 gpm. The Ledger Dolomite is one of the most productive aquifers in the Conestoga Valley sections, with yields from 3 to 800 gpm, and a median yield of 65 gpm. The Antietam Formation and the Harpers Phyllite generally yield sufficient groundwater for domestic supplies. Well yields range from 1 to 250 gpm, with median yields of 6 to 8 gpm.^{22,24}

The groundwater is under water-table conditions, with local areas of artesian conditions. The bedrock units are hydraulically interconnected through fractures. The depth to groundwater at the site is unknown but is expected to be less than 20 feet. The direction of shallow groundwater flow at the site is expected to be north-northwest, toward Codorus Creek.^{22,24}

3.4 Climate and Meteorology

The facility is located in an area of humid continental climate, slightly influenced by the Atlantic Ocean. The average yearly temperature is 53.3°F, with monthly extremes of 30.7°F in January to 75°F in July. Approximately 40.1 inches of precipitation fall annually, and the annual evaporation is approximately 33 inches. A net precipitation of 7.1 inches is received annually. The 24-hour rainfall is 2.5 inches.^{26,27}

3.5 Land Use

The MPSI facility is located within the city boundaries of York, Pennsylvania. Residential areas lie to the northwest, west, south, and southeast. A railroad runs along the southern boundary of the facility. Some light industries are also found south of the facility. Heavy industries operate to the north and east.^{1,2}

ORIGINAL
(Red)

3.6 Population Distribution

MPSI is located adjacent to the residential areas of York, Pennsylvania. Residents within a 1-mile radius number 24,055. There are 32,161 people residing between 1 and 2 miles from the site, while 19,800 people live from 2 to 3 miles from the facility. The total number of residents in the study area is 76,016. The population estimates of outlying areas were based on a count of homes multiplied by 3.8 persons.^{1,28,29}

3.7 Critical Environments

No species of concern were identified within the study area.³⁰ However, two federally listed endangered species are expected to be found as transient species in the study area. They are the bald eagle (Haliaeetus leucocephalus) and the peregrine falcon (Falco peregrinus).³¹ No wetlands are located within one mile downstream of the site.¹

ORIGINAL
(Red)

SECTION 4

4.0 WASTE TYPES AND QUANTITIES

Hazardous wastes generated on site have been classified by the facility as including the following EPA RCRA waste identification numbers: F001, F002, F003, F005 and D001. The waste codes presented were derived from the facility's Notification of Hazardous Waste Activity Forms, submitted in 1983 and 1984.^{7,10}

The only hazardous wastes currently generated by the facility are waste paints and thinners from painting operations. These materials, which amount to approximately 100 gallons every 3 months, are removed and disposed by Safety Kleen (EPA ID No. PAD000738823).³

Petroleum naphtha is the waste derived from four Safety Kleen units used for the degreasing of machinery parts. Before the use of Safety Kleen, which began in October 1985, MPSI operated degreasing stations within the facility. Waste solvents from the stations were transported from the facility by Industrial Solvents and Chemical Company (EPA ID No. PAD098732118). Approximately 150 to 200 gallons of solvent were removed every 3 months. In 1985, a one-time removal associated with the closure of the hazardous waste storage area was completed by GEM CHEM, Incorporated (EPA ID No. PAD009439662). The waste was transported to Delaware Container Company (EPA ID No. PAD064375470).^{3,12}

MPSI maintains a lease agreement with a laundry service, Unifirst Company, for the collection and cleaning of oiled and dirty rags. The rags are deposited in containers located throughout the facility, to be collected by Unifirst.³

Other wastes currently generated by MPSI include lubricating oils, paper, wood, lunchroom wastes, and filters from the venting system in the paint area. No estimated quantities are available for these wastes.³

4.1 Solid Waste Management Units

Four SWMUs have been identified for the facility: the hazardous waste storage area, the waste oil storage bin and empty waste oil drum storage area, the dumpsters, and the Safety Kleen units. The hazardous waste storage area and the Safety Kleen unit handle hazardous waste.^{2,3}

4.1.1 SWMU No. 1

Hazardous Waste Storage Area

The hazardous waste storage area is located adjacent to a storage building east of the northwestern wing of the main building. The area is 16 feet by 45 feet in size and is enclosed by fencing on 3 sides, with a roof above. The fourth side is bounded by the storage building wall. A gate, which allows access to the area, is kept locked at all times. A six-inch concrete berm is located on three sides of the area; no berm is found on the gate side. The concrete floor of the area slopes down to a sump from all sides. The sump was reportedly concrete lined and held a volume of approximately 50 gallons. The total retention capacity of the area could not be determined. During the site visit, one partially full drum containing paint waste and thinner was stored in the area.^{2,3}

Date of Start-Up

The area was first constructed and began operation in 1979.³²

Date of Closure

The hazardous waste storage area is currently active. As a requirement of the withdrawal of interim status, the area was reportedly "closed" in 1985. This included the cleaning of the area and the removal of wastes derived as hazardous waste. Facility representatives stated that a closure plan for the area was submitted to PA DER. FIT 3 was unable to obtain a copy of the closure plan.^{3,7,12,32}

Wastes Managed

Wastes managed in this area are derived from painting operations at the facility and, on occasion, solvent from specialized degreasing. Prior to the use of Safety Kleen, spent solvent from degreasing was regularly stored in the area. Waste classifications of materials found here can or did include D001, F001, F003 and F005. At the time of the site visit, one partially full drum, labeled D001, was found in the area.^{2,3,7,15}

Release Controls

The area is bounded on three sides by a six-inch-high concrete berm. The concrete floor slopes from all sides down to a concrete-lined sump with a volume of approximately 50 gallons. The total holding capacity of the area could not be determined.²

History of Releases

No releases have been reported from this area. No evidence of spills or releases was observed during the site visit.^{2,3}

4.1.2 SWMU No. 2

Waste Oil Storage Bin and Empty Waste Oil Drum Storage Areas

The waste oil and empty waste oil drum storage areas are located west of the northwestern wing of the main building. Waste oil is stored inside a building that is segregated into storage bins. The waste oil bin is 8 by 15 feet in size. A 250-gallon, above-ground waste oil storage tank is located at the rear of the bin. Bulk oil and unused Safety Kleen solvent are stored in the adjacent bin. At the time of the site visit, eight 55-gallon drums of waste oil were in the waste oil bin. Yerger Company removes the waste oil for recycling.^{2,3,32}

Empty waste oil drums are stored adjacent to the waste oil bin, outside the building. The area is concrete paved and contained 14 drums at the time of the site visit.²

Date of Start-Up

Site representatives indicated that this area began operation about the time Koppers obtained the property, which was in 1965.³²

Date of Closure

No closure date has been set for this SWMU.³²

Wastes Managed

No hazardous wastes are managed at this area. Waste lubricating oil from MPSI machinery is stored here prior to removal by a recycler. Empty waste oil drums are stored outside the waste oil storage bin.^{2,3}

Release Controls

The waste oil storage bin is made up of three cinder block walls, with a doorway forming the southern side. A sliding wood door in the doorway allows the area to be secured. The bin has a concrete floor, and no floor drains or sumps are present in the bin.²

The empty waste oil drum storage area is concrete paved. Drums are placed on their sides directly on the concrete. No diking is located around the area.²

History of Releases

No spills or releases from this SWMU have been reported by MPSI or Koppers. No signs of a release or spill were noted during the site visit.^{2,3}

4.1.3 SWMU No. 3 Dumpsters

Three 6-cubic-yard dumpsters are maintained at the MPSI facility. One is located adjacent to the waste oil storage bin, the second is outside the maintenance room, and the third is located in the area east of the northwestern wing. Waste Conversion Company empties the dumpsters on a weekly basis.^{2,3}

Date of Start-Up

Dumpsters have been used at the facility since the start of operations by Koppers in 1965.³²

Date of Closure

No closure date has been set for this SWMU.³²

Wastes Managed

The dumpsters receive lunchroom waste, paper, cardboard, wood, and other nonhazardous refuse in addition to floor sweepings from the painting area and filters from the paint area venting system. The floor sweepings have been tested for EP toxicity and were found to be acceptable for disposal with common refuse. The filters are currently being analyzed.^{3,13}

Release Controls

All three dumpsters are located in concrete-paved areas. No release controls are present in these areas.²

History of Releases

No releases or spills from this SWMU have been reported by MPSI or Koppers. No signs of a release or spill were noted during the site visit.^{2,3}

4.1.4 SWMU No. 4

Safety Kleen Units

Safety Kleen maintains four cleaning stations within the facility. The stations are self-contained and utilize petroleum naphtha for the degreasing of parts from MPSI machinery. The naphtha is removed for recycling by Safety-Kleen. Two cleaning stations are located in the maintenance department, one in the tool room and one in the production area.^{2,3}

Date of Start-Up

Usage of Safety Kleen units began in 1985.^{3,2}

Date of Closure

No closure date has been set for this SWMU.^{3,2}

Wastes Managed

Petroleum naphtha is utilized as a degreasing agent at the cleaning stations. Parts and tools are brought to the stations to be degreased. When the solvent becomes too dirty to be used, it is removed by Safety Kleen. The waste is manifested as a D001 category waste.³

Release Controls

The four units are located inside the main building on concrete floors. No floor drains are present inside the building. The units are self-contained; all solvent is retained within the unit. No release controls are associated with the units.^{2,3}

History of Releases

No releases or spills from this SWMU have been reported by MPSI. No signs of a release or spill were noted during the site visit.^{2,3}

ORIGINAL
(Red)

SECTION 5

5.0 FIELD TRIP REPORT

5.1 Summary

On April 24, 1989, NUS FIT 3 members David Spencer, Edie Gair, and Joseph Marchesani conducted a preliminary assessment of the subject facility. David Smith, the MPSI representative, accompanied the FIT during the site visit. The weather was sunny and warm, with temperatures near 70°F. Photographs were taken on site (see figure 5.1, page 5-3, and the photograph log, section 5.4).

5.2 Persons Contacted

5.2.1 Prior to Field Trip

Korlan Strayer
Vice President, Manufacturing
Mineral Processing Systems, Incorporated
240 Arch Street
P.O. Box M-312
York, Pennsylvania 17405
(717) 843-8671

5.2.2 At the Site

David Smith
Manager
Mineral Processing Systems, Incorporated
240 Arch Street
P.O. Box M-312
York, Pennsylvania 17405
(717) 843-8671

5.2.3 Water Supply Well Information

The closest home well to the MPSI facility is located approximately 1.3 miles north. No home well surveys were distributed at the time of the site visit.

5.3 Site Observations

- The HNU background reading was 0.2 ppm. No readings above background were recorded.
- The mini-alert was set on the XI scale. No readings above background were recorded.
- One drum of mixed paint and thinner was in the hazardous waste storage area. No signs of spills were noted in this area.
- A pit behind the testing laboratory received discharge water from the test grinding machines in the laboratory.
- Waste oil was stored in a small building, in a room next to unused oil.
- Empty waste oil drums were stored outside the waste oil storage building. No signs of a release were noted in this area.
- Oily rags were collected in small cans and removed by a contractor to be laundered.
- No evidence of spills or releases was noted at any location at the facility.
- Access to the facility was limited by the fencing that surrounded the facility.
- No evidence of slag or foundry sand disposition at the facility was found.

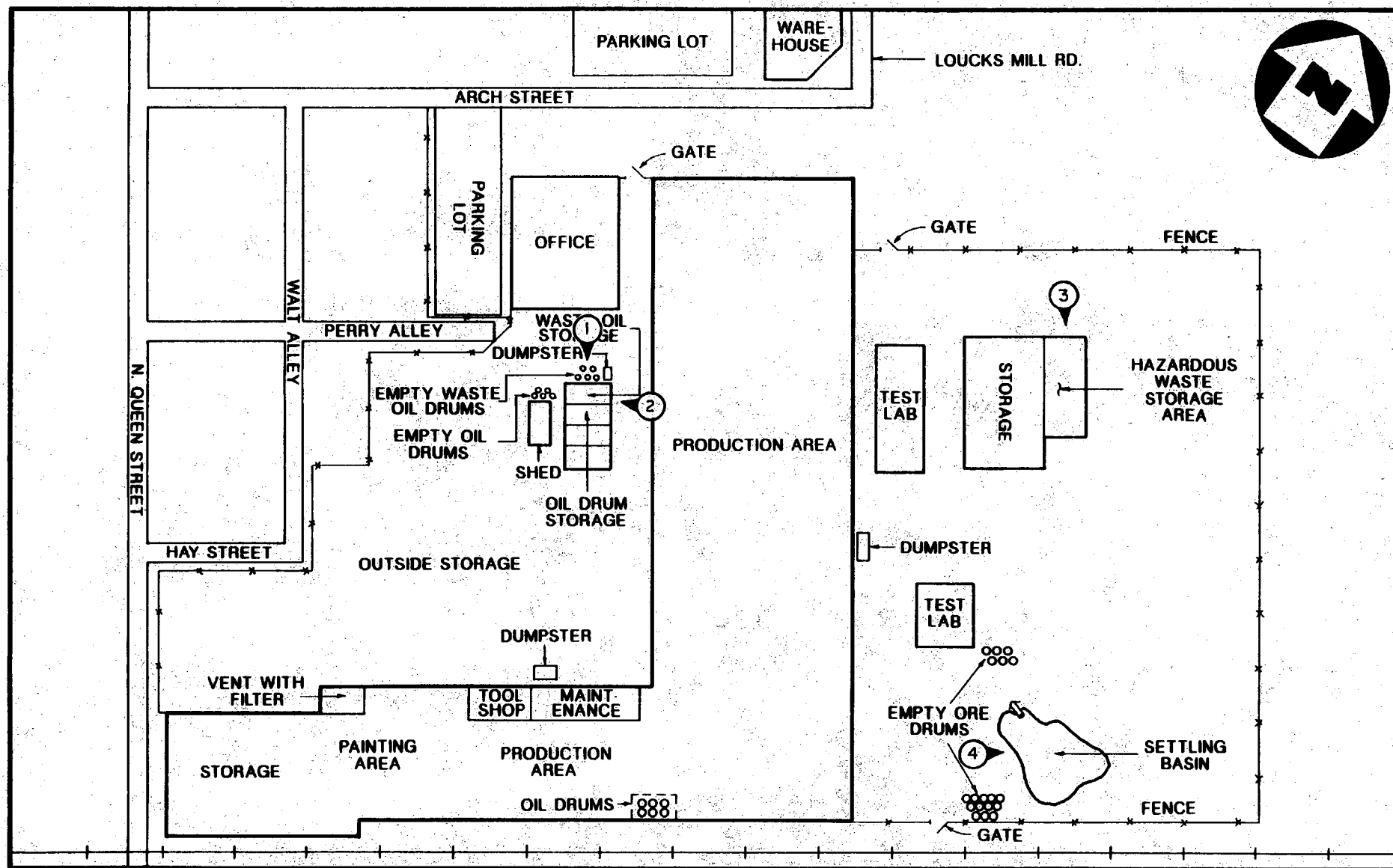


PHOTO LOCATION MAP
MINERAL PROCESSING SYSTEMS INC.
 (NO SCALE)

FIGURE 5.1

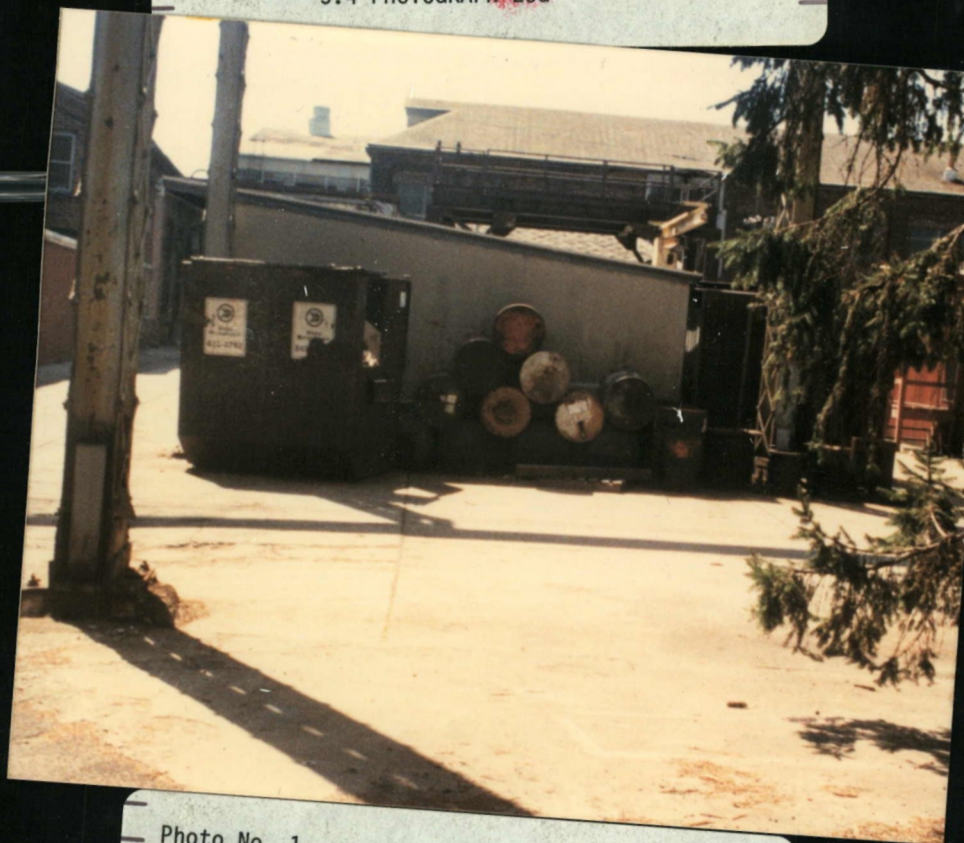


Photo No. 1
View of Empty Waste Oil Drums Looking
Southeast.

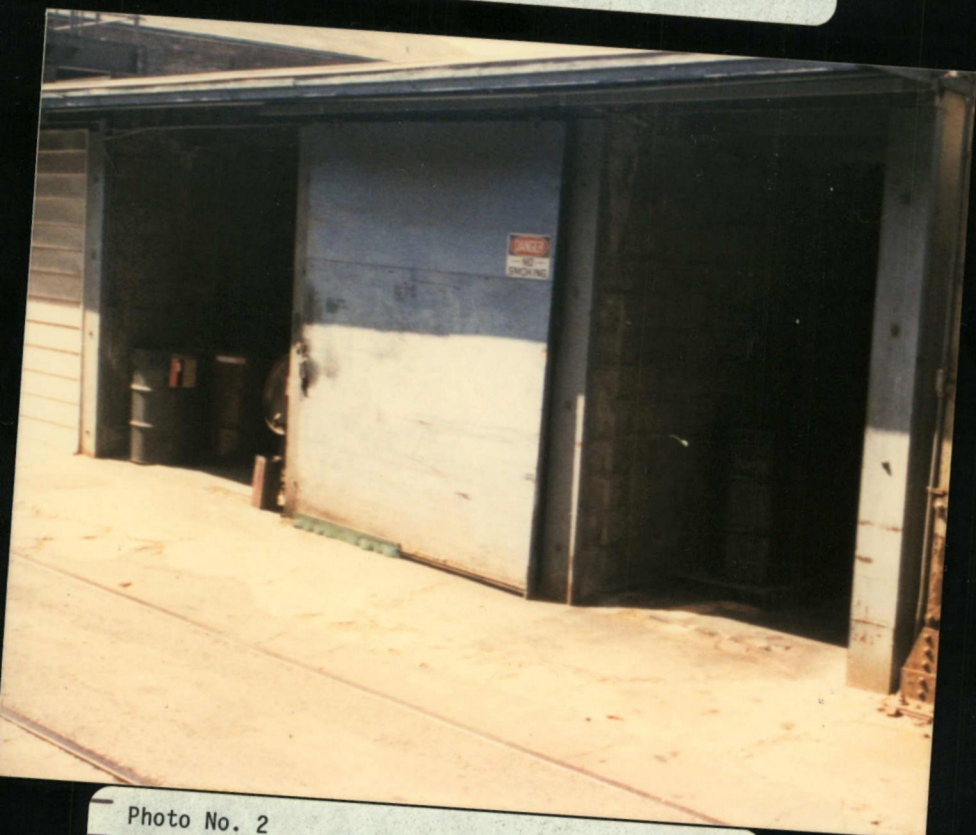


Photo No. 2
View of Waste and Bulk Oil Storage Building
Looking South.

MINERAL Processing Systems INC.
F3-8903-57
PA-2429

R₁P₁
photo 1

Empty WASTE oil DRUMS

4/24/89



EDIE GAIR

1045

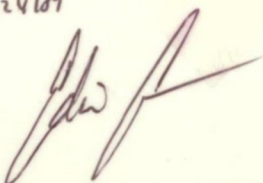
Photo No. 1
View of Empty Waste Oil Drums Looking
Southeast

MINERAL Processing Systems INC.
F3-8903-57
PA-2429

R₁P₂
photo 2

WASTE AND BULK OIL STORAGE Building

4/24/89



EDIE GAIR

1050

Photo No. 2
View of Waste and Bulk Oil Storage Building
Looking South



Photo No. 3
View of the Hazardous Waste Storage Area
Looking Southeast.

ORIGINAL



Photo No. 4
View of Lagoon and Discharge from Test Labs
Looking East.

MINERAL PROCESSING SYSTEMS INC.

F3-8903-57

PA-2429

R.P.

photo 3

HAZARDOUS WASTE STORAGE AREA

4/24/89



EDIE GARIK

1110

Photo No. 3
View of Hazardous Waste Storage Area
Looking Southeast

MINERAL PROCESSING SYSTEMS INC.

F3-8903-57


PA-2429

R.P.

photo 4

LAGOON AND DISCHARGE FROM TEST LABS

4/24/89



EDIE GARIK

1120

Photo No. 4
View of Lagoon and Discharge from Test Labs
Looking East

F3-8903-57

**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT****I. IDENTIFICATION**
01 STATE 02 SITE NUMBER
PA 2429**II. SITE NAME AND LOCATION**

01 SITE NAME (Legal, common, or descriptive name of site) Mineral Processing Systems, Incorporated		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 240 Arch Street			
03 CITY York	04 STATE PA	05 ZIP CODE 17405	06 COUNTY York	07 COUNTY CODE 133	08 CONG DIST PA19
09 COORDINATES LATITUDE 40° 58' 07"		LONGITUDE 76° 43' 33"			

10 DIRECTIONS TO SITE (Starting from nearest public road)

Follow Route 83 south to the Route 30 East exit. Follow Route 30 to Loucks Mill Road (second traffic light) and turn right. The facility is on the left, just past a 90-degree bend in the road.

III. RESPONSIBLE PARTIES

01 OWNER (If known) Mineral Processing Systems, Incorporated		02 STREET (Business, mailing, residential) 240 Arch Street			
03 CITY York	04 STATE PA	05 ZIP CODE 17405	06 TELEPHONE NUMBER (717) 843-8671		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: 11 / 14 / 80 MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: _____ MONTH DAY YEAR ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 4 / 24 / 89 MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): NUS Corporation			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR _____ ENDING YEAR _____ present <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Paint wastes and thinner are currently generated on site. Toluene and trichloroethylene waste is sometimes generated from degreasing operations. Safety Kleen maintains cleaning stations utilizing petroleum naphtha at the site.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

No spills or releases have been reported at the facility. Fencing prevents access to the facility. The nearest home well is 1.3 miles away.

V. PRIORITY ASSESSMENT**01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)**

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☒ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT James Harper	02 OF (Agency Organization) U.S. EPA		03 TELEPHONE NUMBER (215) 597-0823	
04 PERSON RESPONSIBLE FOR ASSESSMENT David Spencer	05 AGENCY NUS	06 ORGANIZATION FIT 3	07 TELEPHONE NUMBER (215) 687-9510	08 DATE 5 / 30 / 89 MONTH DAY YEAR

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
PA	2429

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID ☐ E. SLURRY
☐ B. POWDER, FINES ☒ F. LIQUID
☒ C. SLUDGE ☐ G. GAS
☐ D. OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE

(Measures of waste quantities must be independent)

TONS

CUBIC YARDS

NO. OF DRUMS unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- | | | |
|---------------------------------------------|--------------------------------------------------|--------------------------------------------------------|
| <input checked="" type="checkbox"/> A TOXIC | <input type="checkbox"/> E SOLUBLE | <input checked="" type="checkbox"/> I. HIGHLY VOLATILE |
| <input type="checkbox"/> B. CORROSIVE | <input type="checkbox"/> F. INFECTIOUS | <input type="checkbox"/> J. EXPLOSIVE |
| <input type="checkbox"/> C. RADIOACTIVE | <input type="checkbox"/> G. FLAMMABLE | <input type="checkbox"/> K. REACTIVE |
| <input type="checkbox"/> D. PERSISTENT | <input checked="" type="checkbox"/> H. IGNITABLE | <input type="checkbox"/> L. INCOMPATIBLE |
| | | <input type="checkbox"/> M. NOT APPLICABLE |

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	< 50	gallons	mixed paint waste and thinner .
OLW	OILY WASTE			
SOL	SOLVENTS	unknown	--	Solvents were stored at the facility
PSD	PESTICIDES			in the past.
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

[illegible]

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS FIT 3. Preliminary assessment; site visit. TDD No. F3-8903-57, April 24, 1989.

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
PA 2429

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.

01 ☐ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.

01 ☐ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: _____

(Acres)

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL☐ ALLEGED

None reported or observed.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
PA	2429

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None reported or observed.

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None reported or observed.

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None reported or observed.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Soils, runoff, standing liquids, leaking drums)

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None reported or observed.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None reported or observed.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None reported or observed.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None reported or observed.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None reported or observed.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS FIT 3. Preliminary assessment; site visit. TDD No. F3-8903-57, April 24, 1989.
Pennsylvania Department of Environmental Resources, Harrisburg Regional Office. File Information.

ORIGINAL
(Red)

SECTION 6

6.0 REFERENCES FOR SECTIONS 1.0 THROUGH 5.0

1. United States Geological Survey. York, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1954, photorevised 1968 and 1973.
2. NUS Corporation, FIT 3. Preliminary assessment; site visit. TDD No. F3-8903-57, April 24, 1989.
3. Smith, David, Manager, Mineral Processing Systems, Incorporated, with David Spencer, NUS FIT 3. Meeting. April 24, 1989.
4. Fair, Francis, Pennsylvania Department of Environmental Resources, to George Parthmere, Standard Concrete Products Company. Correspondence. April 25, 1980.
5. United States Environmental Protection Agency. General Information - Consolidated Permits Program, EPA ID No. PAD004382453. Koppers Company, Incorporated. Form Approved OMB No. 158-R0157. November 14, 1980.
6. United States Environmental Protection Agency. Hazardous Waste Permit Application - Consolidated Permits Program, EPA ID No. PAD004382453. Form Approved OMB No. 158-S80004. November 14, 1980.
7. Pennsylvania Department of Environmental Resources. Hazardous Waste Inspection Report, Mineral Processing Systems, Incorporated. December 4, 1984.
8. United States Environmental Protection Agency. Notification of Hazardous Waste Activity. Koppers Company, Incorporated, EPA ID No. PAD004382453. Form Approved OMB No. 158-S79016. April 14, 1983.
9. Guthmann, T. L., Plant Engineer, Koppers Company, Incorporated, to Edward Simmons, Pennsylvania Department of Environmental Resources. Correspondence. April 13, 1983.
10. Bosies, B. A., Manufacturing Manager, Mineral Processing Systems, Incorporated, to Pennsylvania Department of Environmental Resources. Correspondence. December 5, 1984.

11. Pennsylvania Department of Environmental Resources. Notification of Hazardous Waste Activity, Mineral Processing Systems, Incorporated, EPA ID No. PAD004382453. December 4, 1984.
12. Mineral Processing Systems Incorporated. Pennsylvania Department of Environmental Resources Preparedness, Prevention, and Contingency Plan. 1985.
13. Pennsylvania Department of Environmental Resources, Bureau of Solid Waste Management. Inspection Report, Mineral Processing Systems, Incorporated. August 20, 1985.
14. Pennsylvania Department of Environmental Resources, Bureau of Solid Waste Management. Inspection Report, Mineral Processing Systems, Incorporated. October 6, 1986.
15. Pennsylvania Department of Environmental Resources. Hazardous Waste Inspection Report, Koppers Company, Incorporated. March 31, 1982.
16. Mitsak, John C., Administrator, Environmental Services, Koppers Company, Incorporated, to Francis Fair, Pennsylvania Department of Environmental Resources. Correspondence. July 29, 1980.
17. Guthmann, Theodore, Plant Engineer, Koppers Company, Incorporated, to Joseph Kozlosky, Pennsylvania Department of Environmental Resources. Correspondence. August 13, 1982.
18. York Water Company. Gravity and Repumped System; Water Distribution Map. 1983.
19. Bissey, Robert, York Water Company, with Tom Pearce, NUS FIT 3. Telecon. February 21, 1986.
20. Barnhart, Dale, York Water Company, with James Criswell, NUS FIT 3. Telecon. April 21, 1988.
21. Pennsylvania Department of Environmental Resources, Bureau of Topographic and Geologic Survey. Groundwater Inventory System. 1984.

22. Lloyd, O.B., Jr., and D.C. Growitz, Pennsylvania Geological Survey. Groundwater Resources of the Central and Southern York County, Pennsylvania. Water Resource Report 42, 1977.
23. Taylor, L. E. and W. H. Werkheiser, Pennsylvania Geological Survey. Groundwater Resources of the Lower Susquehanna River Basin, Pennsylvania. Water Resource Report 57, 1984.
24. Wilshusen, J. P., Pennsylvania Geological Survey. Environmental Geology of the Great York Area, York County, Pennsylvania. Environmental Geology Report 6, 1979.
25. United States Department of Agriculture, Soil Conservation Service. Soil Survey of York County, Pennsylvania. 1963.
26. National Oceanic and Atmospheric Administration. Climatography of the United States. No. 60, Climate of Pennsylvania. National Climatic Data Center, Asheville, North Carolina. June 1982.
27. United States Environmental Protection Agency. Uncontrolled Hazardous Waste Site Ranking System: A User's Manual. 1984.
28. Rand McNally. Commercial Reference Map and Guide. Pennsylvania 1983.
29. United States Geological Survey. York Haven, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1964, photorevised 1972. Combined with West York, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1954, photorevised 1968 and 1973; and Dover, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1963, photorevised 1972.
30. Drayton, Eugenie, Data Manager, the Nature Conservancy, to Garth Glenn, NUS FIT 3. Correspondence. May 23, 1989.
31. Kulp, Charles, Supervisor, United States Department of the Interior, Fish and Wildlife Service, to Garth Glenn, NUS FIT 3. Correspondence. June 7, 1989.
32. Strayer, Korlan, Vice President, Mineral Processing Systems, Incorporated, with David Spencer, NUS FIT 3. Telecon. May 17, 1989.

ORIGINAL
(Red)

APPENDIX A

GENERAL INFORMATION		I. EPA I.D. NUMBER	
EPA Consolidated Permits Program (Read the "General Instructions" before starting.)		PAD004382453	
II. POLLUTANT CHARACTERISTICS		GENERAL INSTRUCTIONS If a preprinted label has been provided, fill it in the designated space. Review the information carefully; if any of it is incorrect, correct through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.	

SPECIFIC QUESTIONS		MARK 'X'		SPECIFIC QUESTIONS		MARK 'X'	
YES	NO	FORM ATTACHED	YES	NO	FORM ATTACHED		
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X		
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X		
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X	X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X		
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X		
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		

IV. FACILITY CONTACT	
A. NAME & TITLE (last, first, & title) 2 HORLEBEIN, FRANK C. MFG. MGR.	B. PHONE (area code & no.) 717 843 8671
V. FACILITY MAILING ADDRESS	
A. STREET OR P.O. BOX 3 BOX 312	
B. CITY OR TOWN YORK	
C. STATE PA	
D. ZIP CODE 17405	
VI. FACILITY LOCATION	
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 240 ARCH ST	
B. COUNTY NAME YORK	
C. CITY OR TOWN YORK	
D. STATE PA	
E. ZIP CODE 17405	
F. COUNTY CODE (if known) 00	

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST				B. SECOND			
7	3	5	3	7			
(specify) MINING MACHINERY (MFG.)				(specify)			

C. THIRD				D. FOURTH			
7				7			
(specify)				(specify)			

VIII. OPERATOR INFORMATION

A. NAME												B. Is the name listed in Item VIII-A also the owner?	
KOPPERS CO. INC.												<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)										D. PHONE (area code & no.)			
F - FEDERAL S - STATE P - PRIVATE M - PUBLIC (other than federal or state) O - OTHER (specify) P										7 1 7 8 4 3 8 6 7 1			

E. STREET OR P.O. BOX											
BOX 312											

F. CITY OR TOWN						G. STATE		H. ZIP CODE		IX. INDIAN LAND	
WORK						PA		1 7 4 0 5		Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)									
N A										6 7 - 3 0 4 - 0 0 0 1 5									

B. UIC (Underground Injection of Fluids)										E. OTHER (specify)									
N A										6 7 - 3 0 4 - 0 0 0 1 6									

C. RCRA (Hazardous Wastes)										F. OTHER (specify)									
N A										6 7 - 3 0 4 - 0 0 0 1 7									

(specify) AIR QUALITY CONTROL - PA. DER

(specify) AIR QUALITY CONTROL - PA. DER

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

NATURE OF BUSINESS (provide a brief description)

ALL SALES AND ENGINEERING FOR OUR MINERAL PROCESSING SYSTEMS AS WELL AS LABORATORY TESTING FACILITIES ARE AT THIS LOCATION. ADDITIONALLY, FABRICATION AND MACHINE SHOP FACILITIES ARE LOCATED HERE FOR MANUFACTURING OUR MINERAL PROCESSING EQUIPMENT.

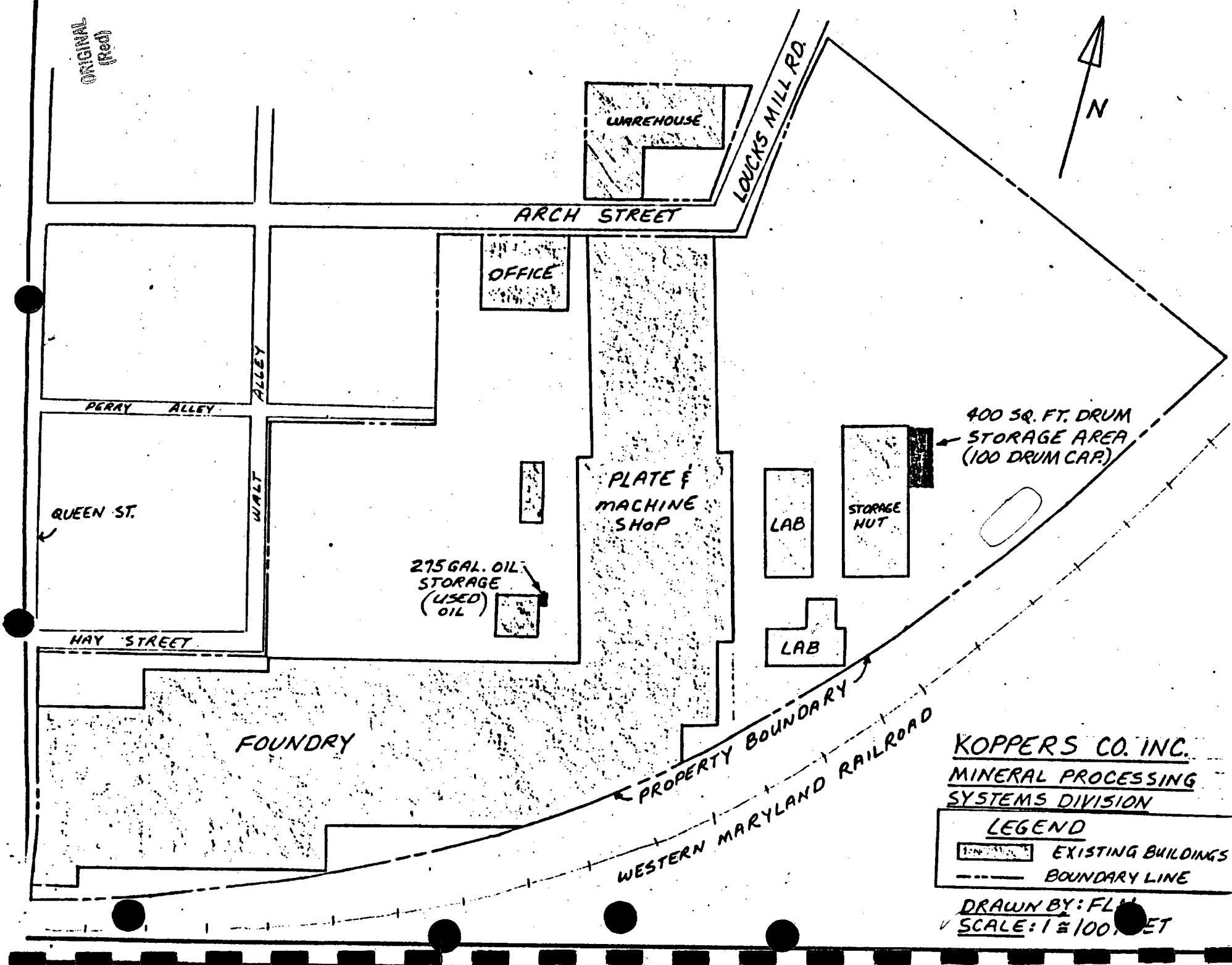
XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
GERALD CHAMPNESS, VICE-PRESIDENT & GENERAL MANAGER	<i>Gerald Champness</i>	11-14-80

COMMENTS FOR OFFICIAL USE ONLY

C



Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-S80004

FORM 3 RCRA	EPA	U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program (This information is required under Section 3005 of RCRA.)	I. EPA I.D. NUMBER F P A D 0 0 4 3 8 2 4 5 3
--------------------------	------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------

FOR OFFICIAL USE ONLY		COMMENTS
APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)		2. NEW FACILITY (Complete item below.)	
<input checked="" type="checkbox"/> 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)		<input type="checkbox"/> 2. NEW FACILITY (Complete item below.)	
FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)		FOR NEW FACILITIES PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN	
<div><div>C</div><div>8</div></div>	<div><div>YR.</div><div>6</div></div> <div><div>MO.</div><div>5</div></div> <div><div>DAY</div><div>1</div></div>	<div><div>YR.</div><div></div></div> <div><div>MO.</div><div></div></div> <div><div>DAY</div><div></div></div>	<div><div>YR.</div><div></div></div> <div><div>MO.</div><div></div></div> <div><div>DAY</div><div></div></div>

B. REVISED APPLICATION (place an "X" below and complete item I above)		2. FACILITY HAS A RCRA PERMIT	
<input type="checkbox"/> 1. FACILITY HAS INTERIM STATUS		<input type="checkbox"/> 2. FACILITY HAS A RCRA PERMIT	

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS		T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	SURFACE IMPOUNDMENT	T03	TONS PER HOUR OR METRIC TONS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	INCINERATOR	T04	GALLONS PER HOUR OR LITERS PER HOUR
Disposal:			OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)		
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	ACRE-FEET	A	
LITERS	L	TONS PER HOUR	HECTARE-METER	F	
CUBIC YARDS	Y	METRIC TONS PER HOUR	ACRES	B	
CUBIC METERS	C	GALLONS PER HOUR	HECTARES	D	
GALLONS PER DAY	U	LITERS PER HOUR			

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C		DUP		T/A C		1	
1		2		3		4	
5		6		7		8	
9		10		11		12	
13		14		15		16	
17		18		19		20	
21		22		23		24	
25		26		27		28	
29		30		31		32	
33		34		35		36	
37		38		39		40	
41		42		43		44	
45		46		47		48	
49		50		51		52	
53		54		55		56	
57		58		59		60	
61		62		63		64	
65		66		67		68	
69		70		71		72	
73		74		75		76	
77		78		79		80	
81		82		83		84	
85		86		87		88	
89		90		91		92	
93		94		95		96	
97		98		99		100	

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

ORIGINAL
(Red)

IV. DESCRIPTION OF HAZARDOUS WASTES

EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate are:

ENGLISH UNIT OF MEASURE **CODE**
POUNDS. P
TONS. T

METRIC UNIT OF MEASURE **CODE**
KILOGRAMS K
METRIC TONS M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				Included with above

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

EPA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY													
W P A D 0 0 4 3 8 2 4 5 3 1													W DUP 2 DUP													
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)																										
LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																			
							1. PROCESS CODES (enter)								2. PROCESS DESCRIPTION (if a code is not entered in D(1))											
1	F	0	0	3	20	P	S	0	1																	
2	F	0	0	5	20	P	S	0	1																	
3	F	0	1	7	1400	P	S	0	1																	
4	D	0	0	1	10800	P	S	0	1																	
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										

IV. DESCRIPTION OF HAZARDOUS WASTE (continued)**E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.**

Drain oils	6900	P	S02 *
Cutting oils	9000	P	S01 *

ORIGINAL
(Red)*** Anticipating Promulgation**

EPA I.D. NO. (enter from page 1)

F	P	A	D	0	0	4	3	8	2	4	5	3	6
---	---	---	---	---	---	---	---	---	---	---	---	---	---

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

5	8	1	0	0	0
---	---	---	---	---	---

LONGITUDE (degrees, minutes, & seconds)

7	6	4	3	2	9
---	---	---	---	---	---

VIII. FACILITY OWNER☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

6. ZIP CODE

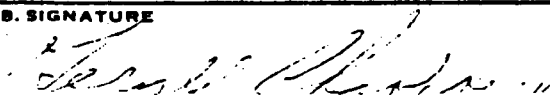
IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

GERALD CHAMPNESS
VICE-PRESIDENT & GENERAL MANAGER

B. SIGNATURE



C. DATE SIGNED

11-14-80

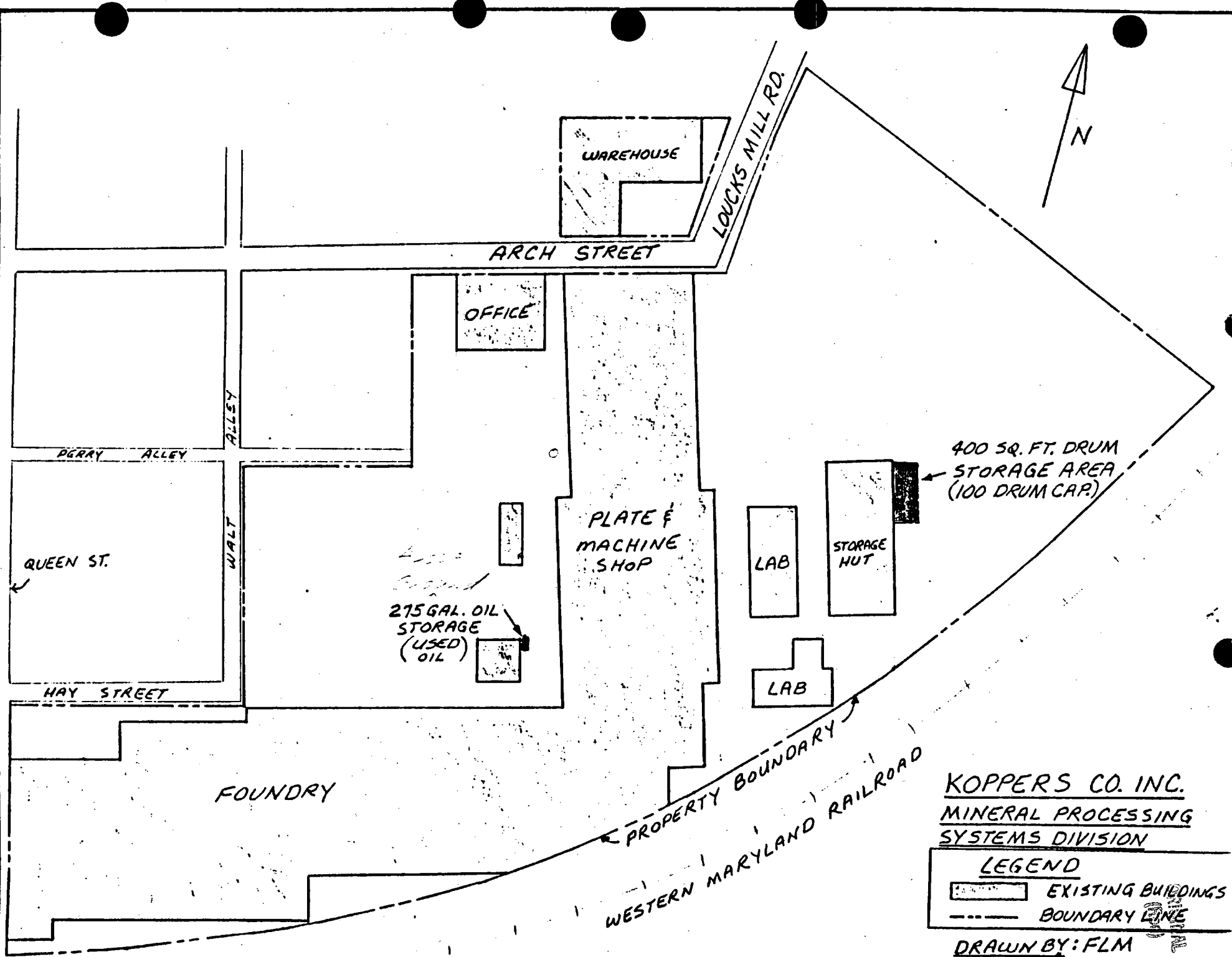
X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED



KOPPERS CO. INC.
MINERAL PROCESSING
SYSTEMS DIVISION

LEGEND

EXISTING BUILDINGS
BOUNDARY LINE

DRAWN BY: FLM
SCALE: 1" = 100 FEET

U.S. ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTALLATION'S EPA I.D. NO.
I. NAME OF INSTALLATION
II. INSTALLATION MAILING ADDRESS
III. LOCATION OF INSTALLATION

PLEASE PLACE LABEL IN THIS SPACE

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law (Section 3010 of the Resource Conservation and Recovery Act).

FOR OFFICIAL USE ONLY

COMMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

INSTALLATION'S EPA I.D. NUMBER													APPROVED		DATE RECEIVED (yr., mo., & day)														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

NAME OF INSTALLATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CITY OR TOWN

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ST.

ZIP CODE

PA

1

7

4

0

3

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CITY OR TOWN

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ST.

ZIP CODE

IV. INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

PHONE NO. (area code & no.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

V. OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B. TYPE OF OWNERSHIP (enter the appropriate letter into box)

F = FEDERAL
M = NON-FEDERAL

M

VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es))

☒ A. GENERATION☐ B. TRANSPORTATION (complete item VII)☐ C. TREAT/STORE/DISPOSE☐ D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION (transporters only - enter "X" in the appropriate box(es))

☐ A. AIR☐ B. RAIL☐ C. HIGHWAY☐ D. WATER☐ E. OTHER (specify):

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA I.D. Number in the space provided below.

☐ A. FIRST NOTIFICATION☒ B. SUBSEQUENT NOTIFICATION (complete item C)

C. INSTALLATION'S EPA I.D. NO.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

ORIGINAL
(Red)

I.D. - FOR OFFICIAL USE ONLY											
W											
1	2	3	4	5	6	7	8	9	10	11	12

X. DESCRIPTION OF HAZARDOUS WASTES (continued from front)

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from non-specific sources your installation handles. Use additional sheets if necessary.

1 F 0 0 1 23 - 26	2 F 0 0 2 23 - 26	3 F 0 0 3 23 - 26	4 F 0 0 5 23 - 26	5 23 - 26	6 23 - 26
7 23 - 26	8 23 - 26	9 23 - 26	10 23 - 26	11 23 - 26	12 23 - 26

HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

13 23 - 26	14 23 - 26	15 23 - 26	16 23 - 26	17 23 - 26	18 23 - 26
19 23 - 26	20 23 - 26	21 23 - 26	22 23 - 26	23 23 - 26	24 23 - 26
25 23 - 26	26 23 - 26	27 23 - 26	28 23 - 26	29 23 - 26	30 23 - 26

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31 23 - 26	32 23 - 26	33 23 - 26	34 23 - 26	35 23 - 26	36 23 - 26
37 23 - 26	38 23 - 26	39 23 - 26	40 23 - 26	41 23 - 26	42 23 - 26
43 23 - 26	44 23 - 26	45 23 - 26	46 23 - 26	47 23 - 26	48 23 - 26

D. LISTED INFECTIOUS WASTES. Enter the four-digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49 23 - 26	50 23 - 26	51 23 - 26	52 23 - 26	53 23 - 26	54 23 - 26
---------------	---------------	---------------	---------------	---------------	---------------

CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24.)

<input type="checkbox"/> 1. IGNITABLE (D001)	<input type="checkbox"/> 2. CORROSIVE (P002)	<input type="checkbox"/> 3. REACTIVE (D003)	<input type="checkbox"/> 4. TOXIC (D000)
-------------------------------------------------	-------------------------------------------------	------------------------------------------------	---------------------------------------------

X. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE Gerald Champness, Vice-President & General Manager	NAME & OFFICIAL TITLE (type or print) Gerald Champness, Vice-President & General Manager	DATE SIGNED 7/1/80
------------------------------------------------------------------------	------------------------------------------------------------------------------------------------	-----------------------

ORIGINAL
(Red)

Pennsylvania Department of Environmental Resources

BUREAU OF SOLID WASTE MANAGEMENT
NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

PR-SWM-53: Rev. 3/82

INSTALLATION'S EPA I.D. NUMBER

D004382453

NAME OF INSTALLATION

MINERAL PROCESSING SYSTEMS INC

III INSTALLATION MAILING ADDRESS

STREET OR P. O. BOX

240 ARCH ST.

CITY OR TOWN

YORK

ST.

ZIP CODE

PA

17403

IV LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER

240 ARCH ST

MUNICIPALITY

CITY OR TOWN

YORK

ST.

ZIP CODE

COUNTY

PA

17403

YORK

INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title)

BOSIES BARRY - MANUFACTURING MANAGER

PHONE NO. (area code & no.)

717 843 8671

VI OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER

B. TYPE OF OWNERSHIP

(Enter the appropriate letter into box)

F - FEDERAL M - NON-FEDERAL

M

VII SIC CODES (4-digit in order of priority)

A. FIRST

C. THIRD

3532 (specify) MINING MACHINERY

(specify)

B. SECOND

D. FOURTH

(specify)

(specify)

VIII TYPE OF HAZARDOUS WASTE ACTIVITY

A. GENERATION

C. STORE

E. TRANSPORTATION
(COMPLETE ITEM IX)

G. REUSE, RECYCLE, RECLAIM

B. TREAT

D. DISPOSE

F. PERMIT BY RULE

H. OTHER (specify):

IX MODE OF TRANSPORTATION (transporters only)

A. AIR

B. RAIL

☒ C. HIGHWAY

D. WATER

E. OTHER (specify):

X EXISTING ENVIRONMENTAL PROGRAM PERMITS

A. NPDES (Discharges to Surface Water)

D. PSD (Air Emissions from Proposed Sources)

B. UIC (Underground Injection of Fluids)

E. SOLID WASTE

C. RCRA (Hazardous Wastes)

F. OTHER

(specify)

XI TYPE OF NOTIFICATION

Mark "X" in appropriate box to indicate whether this is your installation's first notification of hazardous waste activity, or notification of a change of general information, hazardous waste handled, or hazardous waste activity. If you check B, C, D, E, or F, attach a letter of explanation (SEE INSTRUCTIONS).

A. FIRST NOTIFICATION

B. CHANGE OF GENERAL INFORMATION

C. DELETION OF A WASTE

D. ADDITION OF A WASTE

E. DELETION OF AN ACTIVITY

F. ADDITION OF AN ACTIVITY

CONTINUE ON REVERSE

XII DESCRIPTION OF HAZARDOUS WASTES (Continued from front)

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES. Enter the four-digit number from 675.281(h)(2) for each listed hazardous waste from non-specific source your installation handles. Use additional sheets if necessary.

1 F001	2 F002	3 F003	4 F005	5 0001	6
7 	8 	9 	10 	11 	12

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 675.281(h)(3) each listed hazardous waste from specific industrial source your installation handles. Use additional sheets if necessary.

13 	14 	15 	16 	17 	18
19 	20 	21 	22 	23 	24
25 	26 	27 	28 	29 	30

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four-digit number from 675.281(h)(4) for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31 	32 	33 	34 	35 	36
37 	38 	39 	40 	41 	42
43 	44 	45 	46 	47 	48

D. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 675.281(g)(2) through (5))

☐ 1. IGNITABLE

☐ 2. CORROSIVE

☐ 3. REACTIVE

☐ 4. EP TOXIC

XIII CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE

Barry A Bosies

NAME and OFFICIAL TITLE (Type or Print)

Barry Bosies - Mfg Mgr

DATE SIGNED

12/4/84

FOR OFFICIAL USE ONLY

ORIGINAL
(Red)

APPENDIX B

THE REGION

TABLE OF CONTENTS

ORIGINAL
(Red)

Page

I.	PLAN	
A.	General Description of Industrial Activity	1
B.	Description of Existing Emergency Response Plans	1
C.	Organization Structure for Implementation of PPC Plan	1
D.	Material and Waste Inventory	1
E.	Spill and Leak Prevention and Response	2
F.	Material Compatibility	3
G.	Inspection and Monitoring Program	3
H.	Preventive Maintenance	3
I.	Housekeeping Program	3
J.	Security	3
K.	External Factors	4
L.	Internal and External Communications or Alarm Systems	4
M.	Employee Training Program	4
N.	List of Emergency Coordinators	4
O.	Duties and Responsibilities of the Emergency Coordinator	4
P.	Chain of Command	6
Q.	List of Agencies to be notified	6
R.	Emergency Equipment	7
S.	Evacuation Plan for Personnel	7
T.	Arrangements with Emergency Response Contractors	7
U.	Arrangements with Local Emergency Response Agencies and Hospitals	7
V.	Pollution Incident History	7
W.	Implementation Schedule	7
II.	APPENDIX I - PLANT LAYOUT	
III.	APPENDIX II - SITE LOCATION	
IV.	APPENDIX III - EVACUATION PLAN	

PREPAREDNESS, PREVENTION, & CONTINGENCY PLAN FOR MPSI

A. GENERAL DESCRIPTION OF THE INDUSTRIAL ACTIVITY

MINERAL PROCESSING SYSTEMS, INC. is a small, privately owned company which designs and manufactures size reduction equipment for the mining industry. It also is active in the contract fabricating and machining areas. The raw materials used are steel plate, bars, and structural shapes. These are used to produce a finished product by gas or plasma burning, forming, electric arc welding, and machining. The wastes generated are paint residue and thinner, used oils, and spent solvents.

B. DESCRIPTION OF EXISTING EMERGENCY RESPONSE PLANS

None

C. ORGANIZATION STRUCTURE FOR IMPLEMENTATION OF THE PPC PLAN

The Manufacturing Manager will have total responsibility for developing, implementing, and maintaining the PPC Plan. This will include the materials inventory, risk assessment, establishment of spill reporting procedures, visual inspection programs, review of past incidents and spills, and countermeasures utilized.

D. MATERIAL AND WASTE INVENTORY

The materials and wastes are as follows:

1. Lubricating oils and greases -
The storage locations for these are shown on the Plant Layout in Appendix 1 as Area 1 and 2.
The total quantity on hand at one time will be between 750-1500 gallons.
2. Petroleum naphthas such as Graymills Corp. Agitene -
The storage locations for these are shown on the Plant Layout in Appendix 1 as Area 1 and 2.
The total quantity on hand at one time will be between 100-200 gallons.
3. Miscellaneous paints and thinners -
The storage location for these is shown on the Plant Layout in Appendix 1 as Area 3. The total quantity on hand at one time will be between 100-150 gallons.

4. Used solvents, paint residue, and used paint thinners
The storage locations for these are shown on the Plant Layout in Appendix 1 as Area 4. The amount on hand at one time will be between 50-250 gallons.
5. Diesel fuel -
The storage location for this is shown on the Plant Layout in Appendix 1 as Area 5. The amount on hand at one time will be between 50-250 gallons.

The Material Safety Data Sheets for these materials are available in the Manufacturing Manager's office.

E. SPILL AND LEAK PREVENTION AND RESPONSE

A description of the potential spill and leak areas are as follows:

(Refer to Plant Layout in Appendix I)

Area 1 - Oils, greases, and degreasers in 55-gallon drums. Flow from a spill or leak will go north down a paved alley. There is also a tank in which waste oil is stored. This has a capacity of 250 gallons. This is an area that has constant pedestrian traffic from the employees. Any leaks or spills will be immediately detected and reported to the coordinator.

Area 2 - Oils, greases, and degreasers are stored in this area, generally in 55-gallon drums. Flow from a spill or leak will go onto the concrete shop floor. This is an area where people are always working. Any leaks or spills will be immediately detected and reported to the coordinator.

Area 3 - Paints and thinners are stored in this area in containers ranging in size from 1 to 55 gallons. Flow from a spill or leak will go onto the paint storage room floor. This is an area where the painter, guard go several times a day. Any spills or leaks will be immediately reported to the coordinator.

Area 4 - Used solvents, paint residue, and used paint thinners are stored in this area in 55-gallon drums. Flow from a spill or leak will go into a concrete lined sump in the floor. The guards will inspect this area during their hourly rounds and immediately report any spills or leaks to the coordinator.

Area 5 - Diesel fuel is stored in this area in two bulk storage tanks with 250-gallon capacity each. Flow from spill or leak will be contained at tank by concrete curb. This is an area that has constant pedestrian traffic from employees. Any leaks or spills will be immediately detected and reported to the coordinator.

Empty 55-gallon drums and absorbent material are always available in the plant for use of spill containment and clean up.

F. MATERIAL COMPATIBILITY

All of our materials and wastes are stored in steel containers. There is no known corrosion to these containers from the materials stored in them. Also, there is no known material compatibility problems should any of our materials or wastes become mixed. Our materials and wastes are stored under roof so there should be little rust or corrosion.

G. INSPECTION AND MONITORING PROGRAM

All of our materials and wastes are stored on clean concrete floors where any leaks would be immediately noticed. All of the storage areas are places where people are working or the guards patrol. Any spill or leak would be immediately detected and reported to the coordinator.

H. PREVENTIVE MAINTENANCE

All of our materials and wastes are stored in steel containers ranging in size from 1 to 250 gallons. There is no pumping or transfer equipment involved. As such, our preventive maintenance program will consist of only using containers which are in good shape with tight fitting lids or plugs. The lids and plugs are to remain closed except when emptying or filling the container. We will also constantly monitor the containers for signs of damage. Material found to be stored in damaged containers will be transferred to vessels which are undamaged.

I. HOUSEKEEPING PROGRAM

All of our storage locations are either indoors or under cover. The areas are to be kept neat, orderly, and clean with prompt removal of spillage. The containers are to be kept in the designated areas. They will not protrude into walkways or roads. The floors will be kept clean and dry with the use of absorbant material and brooms.

J. SECURITY

The perimeter of the plant is fenced to limit access by persons who are not employees. In addition, the hazardous waste area (refer to Plant Layout in Appendix 1, Area 4) is fenced and locked at all times. Access to the hazardous waste storage area is allowed only to the Material Handling Leadman, guards, and the coordinator.

Also, the internal guard force patrols the plant from 3:00 P.M. to 7:00 P.M., Monday through Friday and 24 hours a day on Saturdays, Sundays, and holidays. The entire plant area is well lit. There is limited access to vehicular traffic.

K. EXTERNAL FACTORS

All of our materials and wastes are stored in closed, air tight, steel containers and are under roof. Power outages, strikes, floods, snow storms, etc. should have no effect on the safe storage and handling of our materials and wastes.

L. INTERNAL AND EXTERNAL COMMUNICATIONS OR ALARM SYSTEMS

The plant is small in size. Anyone spotting a leak or spill is, at most, 60 seconds away from the coordinator's office or a telephone on which we could phone the coordinator. Outside telephones are immediately accessible to anyone needing to contact external assistance. Also, there is an in-plant paging and loudspeaker system which would be used to alert employees in case of emergencies.

M. EMPLOYEE TRAINING PROGRAM

All employees will receive training to familiarize them with the materials with which they are working, any health hazards, practices for preventing spills, and the procedures for responding properly and rapidly to spills. It will also cover inspection of containers and housekeeping.

N. LIST OF EMERGENCY COORDINATORS

Primary coordinator:

Barry A. Bosies
4170 Greywood Drive
York, PA 17402
717-755-1170

Alternate coordinator:

Franklin C. Horlebein
4054 Robinwood Road
York, PA 17402
717-755-6849

O. DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

Whenever there is an imminent or actual emergency situation, the emergency coordinator will immediately:

1. Activate facility alarms or communications systems, where applicable, to notify facility personnel.

2. Notify local emergency response agencies including the Department of Environmental Resources.

Whenever there is an emission or discharge, fire, or explosion, the emergency coordinator will immediately identify the character, exact source, amount, and extent of emitted or discharged materials. He may do this by observation or review of records and, if necessary, by chemical analysis.

Concurrently, the emergency coordinator will assess possible hazards to human health or the environment that may result from the emission or discharge, fire, or explosion. This assessment will consider both direct and indirect effects of the emission, discharge, fire, or explosion.

If the emergency coordinator determines that the installation has had an emission, discharge, fire, or explosion which would threaten human health or the environment, he will immediately notify the applicable local authorities and indicate if evacuation of local areas may be advisable; and, immediately notify the Department of Environmental Resources by telephone at 717-787-4343 and the National Response Center at 800-424-8802 and report the following:

1. Name of the person reporting the incident.
2. Name and location of the installation.
3. Phone number where the person reporting the spill can be reached.
4. Date, time, and location of the incident.
5. A brief description of the incident, nature of the materials or wastes involved, extent of any injuries, and possible hazards to human health or the environment.
6. The estimated quantity of the materials or wastes spilled.
7. The extent of contamination of land, water, or air, if known.

During an emergency, the emergency coordinator will take all reasonable measures necessary to ensure that fire, explosion, emission, or discharge do not occur, reoccur, or spread to other materials or wastes at the installation. These measures shall include, where applicable, stopping manufacturing processes and operations, collecting and containing released materials or wastes, and removing or isolating containers.

If the installation stops operations in response to a fire, explosion, emission, or discharge, the emergency coordinator will ensure that adequate monitoring is conducted for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.

Immediately after an emergency, the emergency coordinator with the Department of Environmental Resources approval will provide for treating, storing, or disposing of residues, contaminated soil, etc., from an emission, discharge, fire, or explosion at the installation.

ORIGINAL
(Red)

The emergency coordinator will insure, that in the affected areas of the installation, no material or waste incompatible with the emitted or discharged residues is processed, stored, treated, or disposed of until cleanup procedures are completed; and, all emergency equipment listed in the PPC Plan is cleaned and fit for its intended use before operations are resumed.

Within 15 days after the incident, the installation will submit a written report on the incident to the Department of Environmental Resources. The report must include the following:

1. Name, address, and telephone number of the individual filing the report.
2. Name, address, and telephone of the installation.
3. Date, time, and location of the incident.
4. A brief description of the circumstances causing the incident.
5. Description and estimated quantity by weight or volume of materials or wastes involved.
6. An assessment of any contamination of land, water, or air that has occurred due to the incident.
7. Estimated quantity and disposition of recovered materials or wastes that resulted from the incident.
8. A description of what actions the installation intends to take to prevent a similar occurrence in the future.

P. CHAIN OF COMMAND

1. Manufacturing Manager, 717-843-8671 Ext. 241,
Home Phone #717-755-1170.
2. Sr. Vice President, Manufacturing, 717-843-8671,
Ext. 213,
Home Phone #717-755-6849.

Q. LIST OF AGENCIES TO BE NOTIFIED

1. Pennsylvania Dept. of Environmental Resources
Phone 717-787-4343.
2. National Response Center
Phone 800-424-8802
3. Pennsylvania State Dept. of Health
Phone 717-771-4561

R. EMERGENCY EQUIPMENT

The emergency equipment falls into four categories: Fire extinguishers, fire hydrants, sprinkler systems, and absorbent materials. The location of each is shown on an attached Plant Layout (Appendix II). The fire extinguishers, hydrants, and sprinkler system are maintained by weekly testing and inspection. Any deficiencies are immediately corrected.

S. EVACUATION PLAN FOR PERSONNEL

See Appendix III

T. ARRANGEMENTS WITH EMERGENCY RESPONSE CONTRACTORS

Stambach & Shindler, Inc.

Phone 848-2206

Services provided: General contractor capable of earth moving, demolition, and construction.

U. ARRANGEMENTS WITH LOCAL EMERGENCY RESPONSE AGENCIES AND HOSPITALS

York City Fire Department

Phone 911

Services provided: Fire fighting and ambulance.

York City Police Department

Phone 911

Services provided: Traffic and crowd control.

York Industrial Medical Center

Phone 846-2311

Services provided: First-Aid Medical care.

York Hospital

Phone 771-2311

Services provided: Complete medical care.

V. POLLUTION INCIDENT HISTORY

No incidents previously reported.

W. IMPLEMENTATION SCHEDULE PLAN COMPLETE AS OF 5/15/85.

MANAGEMENT
OFFICE SERVICES
MARKETING
ENGINEERING
ACCOUNTING
PURCHASING

WAREHOUSE

ARCH STREET

OFFICE

PLATE SHOP
TEST PLANT

MANUFACTURING
MACHINE SHOP
MATERIALS
PRODUCTION

PLATE
MACHINE
SHOP

LAB

STORAGE
HUT

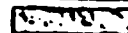
LAB

FOUNDRY

PROPERTY BOUNDARY
WESTERN MARYLAND RAILROAD

KOPPERS CO. INC.
MINERAL PROCESSING
SYSTEMS DIVISION

LEGEND



EXISTING BUILDINGS



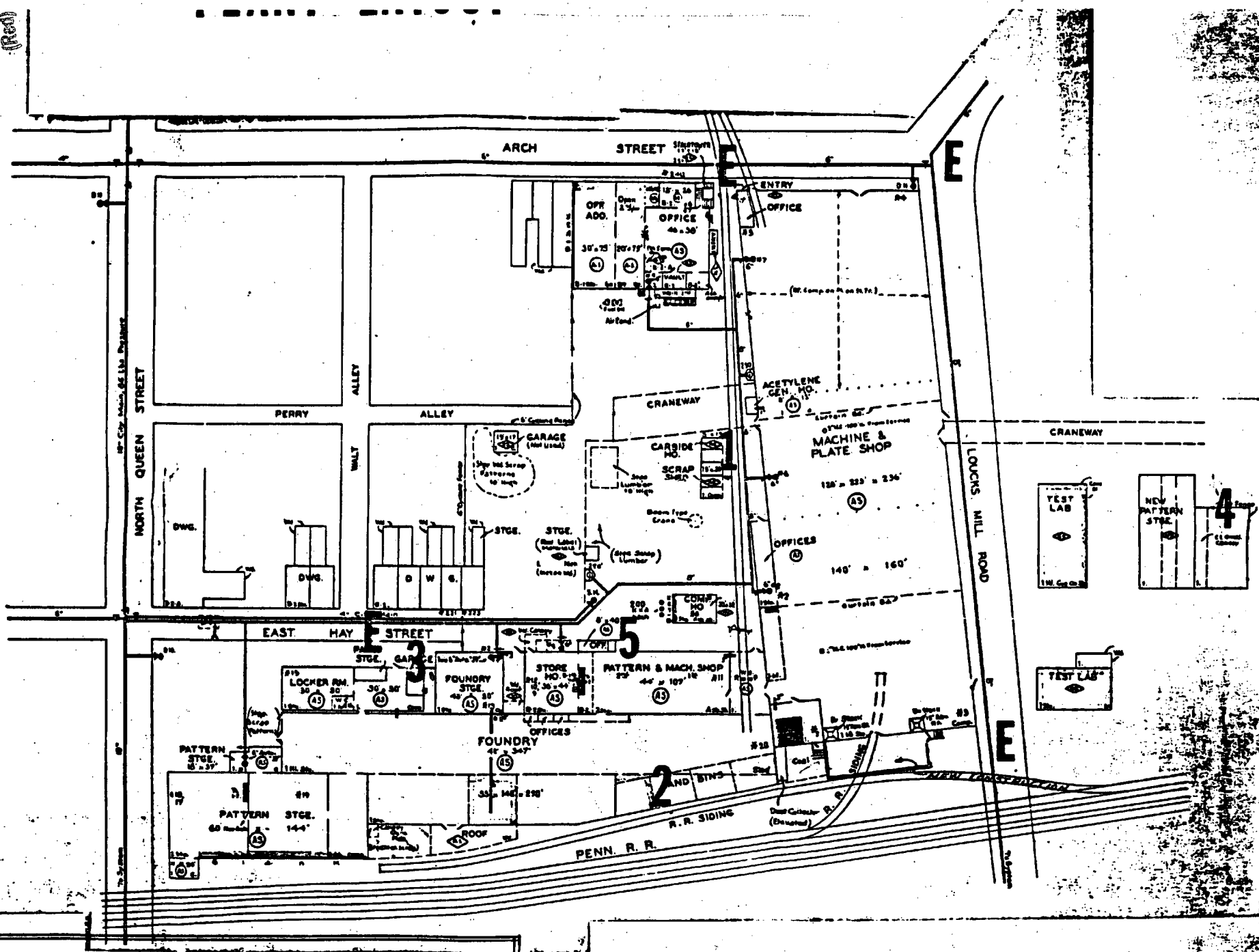
BOUNDARY LINE

DRAWN BY: FLM
SCALE: 1" = 100 FEET

APPENDIX III.

ORIGINAL
(Red)

ORIGINAL
(Red)



Entrance, Exit

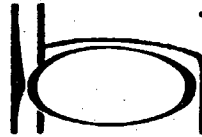
ORIGINAL
(Red)

APPENDIX C

ORIGINAL
(Red)

B-H LABORATORIES

Laboratory Certified By:
Environmental Protection Agency #38-042



COMPLETE ANALYTICAL SERVICES

1604 WEST KING STREET • YORK, PENNSYLVANIA 17404

PHONE AREA 717: 843-5561

July 23, 1982

Koppers Company, Inc.
Mineral Processing Systems Division
240 Arch Street
P. O. Box 312
York, PA 17405

CERTIFICATE OF ANALYSIS

The report is based on an analysis of a sample of Pond Solids which was delivered to B-H Laboratories on 5/19/82 by Koppers who represented to B-H Laboratories that the sample was taken from Pond-Koppers as a source on --- Job No. 16/61990/65

	Sample #82-1055 Pond Solids	Sample #82-1055 *ASTM (A) Leachate Of Pond Solids
Arsenic (As), ppm	92.3	< 0.010
Selenium (Se), ppm	< 1.98	< 0.010
Mercury (Hg), ppm	< 0.203	< 0.0005
Barium (Ba), ppm	3690	< 0.01
Cadmium (Cd), ppm	< 4.9	< 0.05
Chromium (Cr), ppm	3.9	< 0.02
Lead (Pb), ppm	470	< 0.05
Silver (Ag), ppm	30	< 0.01
Sodium (Na), ppm	160	15
Phosphorus (P), ppm	N/A**	0.074
Fluoride (F ⁻), ppm	N/A	5.90
Chloride (Cl ⁻), ppm	N/A	1.50
Sulfate (SO ₄), ppm	N/A	47.8
Residue, Dissolved, ppm	N/A	180

* ASTM (A) - Water Shake Extraction, 1979 Annual Book of ASTM Standards, Part 31

**N/A - Not applicable - The methods currently employed by B-H Laboratories for these parameters are not suitable for this waste type.

CERTIFIED: David A. Boyer

B-H Laboratories offers no opinion as to the acceptability of the sample source for any use or purpose.

All analyses are performed in accordance with procedures outlined in Standard Methods for the Examination of Water and Waste Water, 14th Edition, published by the American Public Health Association, unless otherwise indicated.

TABLE 1
ENGINEERED METAL PRODUCTS
KOPPERS CO., INC.
BALTIMORE, MARYLAND

ORIGINAL
(Red)

Ore Sample to Landfill: Leachate Analyses

<u>Parameter</u>	<u>Concentration in Leachate</u>	<u>Drinking Water Maximum</u>
A. Interim Primary		
Arsenic	< 0.005	0.05
Barium	0.2	1.0
Cadmium	< 0.01	0.01
Chromium (vi)	0.004	0.05
Fluoride	2.5	1.4-2.4
Lead	< 0.05	0.05
Mercury	0.0022	0.002
Nitrate (as N)	< 0.2	10
Selenium	< 0.005	0.01
Silver	< 0.02	0.05
B. Proposed Secondary		
Chloride	< 0.4	250
Copper	0.06	1
Sulfide (S)	< 0.2	0.05
Iron	0.14	0.3
Manganese	0.38	0.05
Sulfate (SO ₄)	22	250
Zinc	0.09	5

(Results in mg/liter)

RDH:ss
12/14/79